



Tennessee Valley Authority
1101 Market Street, LP 3R
Chattanooga, Tennessee 37402-2801

R. M. Krich
Vice President
Nuclear Licensing

August 13, 2010

10 CFR 72.4
10 CFR 72.212

ATTN: Document Control Desk
Director, Spent Fuel Project Office
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Browns Ferry Nuclear Plant, Units 1, 2, and 3
Facility Operating License Nos. DPR-33, DPR-52, and DPR-68
NRC Docket Nos. 50-259, 50-260, 50-296, and 72-052

Subject: **Registration of Use of Cask to Store Spent Fuel**

In accordance with 10 CFR 72.212, "Conditions of General License Issued Under §72.210," paragraph (b)(1)(ii), the Tennessee Valley Authority (TVA) is submitting the registration, for the use of three spent fuel storage casks under the general license to store spent fuel at the Browns Ferry Nuclear Plant (BFN) Independent Spent Fuel Storage Installation. The initial use of the first cask listed below to store spent fuel occurred on July 16, 2010. This registration is required to be submitted within 30 days of initial use. Accordingly, this submittal is due by August 16, 2010.

Pursuant to 10 CFR 72.212, paragraph (b)(1)(ii), TVA is providing the following Information:

Licensee Name:	Tennessee Valley Authority
Licensee Address:	Post Office Box 2000 Decatur, Alabama 35609-2000
Reactor License Numbers:	DPR-33, DPR-52, and DPR-68
Reactor Docket Numbers:	50-259, 50-260, and 50-296

RMSS01

Responsible Individual: Terry Cribbe
Manager, Corporate Nuclear Licensing, BFN

Cask Certificate Number: 1014, Amendment 5

Cask Model Number: HI-STORM 100S

For the cask system placed in service on July 16, 2010:

Cask Identification Numbers: Multi-Purpose Canister
Type 68, Serial No. 0239
Overpack Serial No. 0356

For the cask system placed in service on July 23, 2010:

Cask Identification Numbers: Multi-Purpose Canister
Type 68, Serial No. 0240
Overpack Serial No. 0363

For the cask system placed in service on July 30, 2010:

Cask Identification Numbers: Multi-Purpose Canister
Type 68, Serial No. 0241
Overpack Serial No. 0358

There are no new regulatory commitments in this letter. If you have any questions, please contact Terry Cribbe at (423) 751-3850.

Respectfully,



R. M. Krich

cc: NRC Regional Administrator - Region II